

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 1751 | second adj cam with (follower or lever) same (fixed or pivot)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L2    | 2031 | 123/90.16.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L3    | 5620 | 123/90.15,90.17,90.31,198F.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L4    | 198  | 123/90.2,90.21.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L5    | 1805 | 123/90.39,90.44.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L6    | 8246 | L2 or L3 or L4 or L5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L7    | 68   | L6 and L1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/01 01:02 |
| L8    | 47   | ("3250068"   "3777729"  <br>"3897760"   "4084557"   "4397270"<br>  "4424790"   "4530318"  <br>"4561253"   "4620510"   "4708101"<br>  "4714057"   "4724822"  <br>"4815423"   "5025761"   "5181485"<br>  "5186128"   "5289806"  <br>"5408979"   "5417186"   "5445128"<br>  "5682854"   "5685264"  <br>"5829397"   "5855190"   "5927075"<br>  "5950582"   "6026786"  <br>"6035818"   "6082328"   "6170441"<br>  "6209516"   "6237551"  <br>"6267107"   "6273076"   "6279550"<br>  "6301887"   "6301889"  <br>"6302076"   "6467452"   "6484681"<br>  "6536390"   "6571765"  <br>"6595170"   "6651618"   "6679207"<br>  "6688280").PN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR               | ON      | 2006/10/01 01:05 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S1  | 27    | "4708101"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 14:52 |
| S2  | 0     | ("6679207").URPN.   | USPAT                                       | OR | ON | 2005/12/18 15:00 |
| S3  | 8     | ("4084557"   "4397270"  <br>"4530318"   "4539951"   "4708101"<br>  "4714057"   "4724822"  <br>"6237551").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/12/18 15:06 |
| S4  | 16    | US-4084557-\$.DID. OR<br>US-4397270-\$.DID. OR<br>US-4530318-\$.DID. OR<br>US-4539951-\$.DID. OR<br>US-4708101-\$.DID. OR<br>US-4714057-\$.DID. OR<br>US-4724822-\$.DID. OR<br>US-6679207-\$.DID. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:08 |
| S5  | 5     | harmon-michael.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:20 |
| S6  | 28    | harmon-michael-\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:22 |
| S7  | 15435 | caterpillar-\$.as.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:22 |
| S8  | 50    | S7 and second adj cam   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:23 |
| S9  | 6     | "5685264"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:44 |
| S10 | 2     | "6595170"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:44 |
| S11 | 43    | "5829397"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:46 |
| S12 | 3     | "6484681"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:50 |

## EAST Search History

|     |      |                                    |   |    |    |                  |
|-----|------|------------------------------------|---|----|----|------------------|
| S13 | 1858 | 123/90.16.ccls.                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:50 |
| S14 | 5246 | 123/90.15,90.17,90.31,198F.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:50 |
| S15 | 182  | 123/90.2,90.21.ccls.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:51 |
| S16 | 1742 | 123/90.39,90.44.ccls.              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:52 |
| S17 | 38   | S13 and S15                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:57 |
| S18 | 314  | S13 and S16                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:04 |
| S19 | 75   | S18 and ((second or dual) adj cam) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:05 |
| S20 | 75   | S18 and (second adj cam)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 15:59 |
| S21 | 25   | S18 and (lift with phas\$3)        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:03 |
| S22 | 27   | S14 and S15                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:04 |
| S23 | 13   | S22 not S17                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:04 |
| S24 | 194  | S14 and S16                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:04 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S25 | 27 | S24 and ((second or dual) adj cam)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:05 |
| S26 | 8  | S25 not S19  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:09 |
| S27 | 28 | S15 and S16  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/18 16:09 |
| S28 | 48 | "3413965"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/01/11 15:03 |
| S29 | 8  | ("4084557"   "4397270"  <br>"4530318"   "4539951"   "4708101"<br>  "4714057"   "4724822"  <br>"6237551").PN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2006/01/12 12:22 |
| S30 | 1  | (US-4084557-\$.did.  | USPAT                                       | OR | ON | 2006/04/12 15:30 |
| S31 | 0  | S30 and (crank or crankshaft)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/04/12 15:30 |